

Replacement page

Ca	23					S	AFNTQAAP	31
Cs	1					G		1
Tr2#		10	20	30	40			
Bp	1	RTITNNEMGN	HSGYDYELWK	DYGNT-SMTL	NNGGAPFSAGW	N--NIGNA		45
Ca	10	KTITSNEIGV	NGGYDYELWK	DYGNT-SMTL	KNGGAPSCQW	S--NIGNA		54
Fs	1	NSSVTGNVG	SSPYHYELWK	QGG-NNSMTF	YDNGTYKASW	N--GTNDF		44
Cs	2	RRIYDNETGT	HGGYDYELWK	DYGNT-IMRL	NDGGTFSCQW	S--NIGNA		46
Rf	1	SAADQQTRGN	VGGYDYEMWK	QNGGQASMN	PGAGSTCSW	S--NIENF		46
Tr2	1	QTIQPGTGY	NNGYFYSYWN	DGHGGVITYN	GPGGQFSVNW	S--NSGNF		45
Tv	1	QTIQPGTGF	NNGYFYSYWN	DGHGGVITYN	GPGGQFSVNW	S--NSGNF		45
Th	1	QTIQPGTGY	SNGYFYSYWN	DGHAGVITYN	GGGGSTVTNW	S--NSGNF		45
Sc	1	SGTPSSTGT	DGGYYSWWT	DGAGDATYQN	NGGGSYTLTW	SG--NNGNL		46
An	1		S AGINYVQNYN	GNLGDFTY-D	ESAGTFSMYW	EDGVSSDF		38
Ak	1		S AGINYVQNYN	GNLADFTY-D	ESAGTFSMYW	EDGVSSDF		38
At	1		S AGINYVQNYN	QNLGDFTY-D	ESAGTFSMYW	EDGVSSDF		38
Tr1	1		ASINYDQNYQ	TGG-QVSYS-	PSNTGFSVNW	N--TQDDF		34
Aa	1	RSTPSSTGE	NNGYYSFWT	DGGGDVITYN	GNAGSYSEVW	S--NVGNF		45
Ss	1	ATTIT-NETGY	D-GMYYSFWT	DGGGSVSMIL	NGGGSYSTRW	T--NCGNF		45
SlB	1	DTVVTTNQGT	NNGYYSFWT	DSQGTSMNMN	GSGGQYSTSW	R--NTGNF		47
SlC	1	ATTITTTNQGT	D-GMYYSFWT	DGGGSVSMIL	NGGGSYSTQW	T--NCGNF		46
Tl	1	QTPNSEGW	HDGYYSWWS	DGGAQATYTN	LEGGTYEISW	G--DGNL		45
Tf	1	AVTSNETGY	HDGYYSFWT	DAPGTVMEL	GPGGNYSTSW	R--NTGNF		45
Bc	1		ASTDYQNWNT	DGGGIVNAVN	GSGGNYSVNW	S--NTGNF		36
Bs	1		ASTDYQNWNT	DGGGIVNAVN	GSGGNYSVNW	S--NTGNF		36

FIGURE 1

Replacement page

Tr2#		50		60		70		80	
Bp	46	LFRK-GKKFD	ST-RTHQLG	NISINYNASF	N-PSGNSYLC	VYGTQSP	90		
Ca	55	LFRK-GKKFN	DT-QTYKQLG	NISVNYNCNY	Q-PYGNISYLC	VYGTSSP	99		
Fs	45	LARV-GFKYD	EK-HTYEELGP	IDAYKWSKQ	GSAGGNYIYG	LYGTVDP	91		
Cs	47	LFRK-GRKFN	SD-KTYQELG	DIVVEYGC DY	N-PNGNSYLC	VYGTTRNF	91		
Rf	47	LARM-GKNYD	SQKKNYKAFG	NI VLTYDVEY	T-PRGNSYMC	VYGTTRNF	92		
Tr2	46	VGKG-GWQPG	TKNKV----	---INFS-GS	YNPNNGNSYLS	VYGWSRNP	83		
Tv	46	VGKG-GWQPG	TKNKV----	---INFS-GS	YNPNNGNSYLS	VYGWSRNP	83		
Th	46	VGKG-GWQPG	TKNKV----	---INFS-GS	YNPNNGNSYLS	VYGWSRNP	83		
Sc	47	VGKG-GWNP	AASRS----	---ISYS-GT	YQPNNGNSYLS	VYGTTRSS	84		
An	39	VVGL-GWTTG	SSNA-----	---ITYSAEY	SASGSSSYLA	VYGVVNYP	76		
AK	39	VVGL-GWTTG	SSNA-----	---ITYSAEY	SASGSSSYLA	VYGVVNYP	76		
At	39	VVGL-GWTTG	SSNA-----	---ITYSAEY	SASGSSSYLA	VYGVVNYP	77		
Tr1	35	VVGW-GWTTG	SSAP-----	---INFGGSF	SVNSGTGLLS	VYGTSTNP	72		
Aa	46	VGKG-GWNP	SAKD-----	---ITYSGNF	T-PSGNGYLS	VYGTSTNP	82		
Ss	46	VAGK-GWANG	GR-RT-----	---VRYT-GW	FNPSCNGYGC	LYGWTSP	82		
SLB	48	VAGK-GWANG	GR-RT-----	---VQYS-GS	FNPSCNGYLC	LYGWTSP	84		
SLC	47	VAGK-GWSTG	DGN-----	---VRYN-GY	FNPVNGYGC	LYGWTSP	82		
Tf	46	VGKG-GWNP	LNARA-----	---IHFE-GV	YQPNNGSYLA	VYGTTRNP	83		
Tl	46	VAGK-GWATG	GR-RT-----	---VTYS-AS	FNPSCNGYLT	LYGTTRNP	82		
Bc	37	VVKG-GWTTG	SPFRT-----	---INYNAGV	WAPNGNGYLT	LYGTTRSP	75		
Bs	37	VVKG-GWTTG	SPFRT-----	---INYNAGV	WAPNGNGYLT	LYGTTRSP	75		

Tr2#		90		100		110		120		130
Bp	91	LA EY I I V D S W	GT Y R - P T - - G	A Y A G S F Y A D G	GT Y D I Y E T T R	V N Q P S I I G	135			
Ca	100	L V E Y I I V D S W	G S W R P P - - G G	T S A G T I T V D G	G I Y D I Y E T T R	I N Q P S I Q C	145			
Fs	92	L V E Y I I V D D W	F N K P G A N L L G	Q R A G E F T V D G	D T Y E I W Q N T R	V Q Q P S I K G	139			
Cs	92	L V E Y I I V E S W	G S W R P P - - G A	T P A G T I T Q W M A G T Y E I Y E T T R	V N Q P S I D G	138				
Rf	93	L M E Y I I V E G W	G D W R P P G N D G	E V A G T V S A N G	N T Y D I R K T M R	Y N Q P S L D G	140			
Tr2	84	L I E Y I I V E N F	G T Y N - P S T G A	T K L G E V T S D G	S V Y D I Y R T Q R	V N Q P S I I G	130			
Tv	84	L I E Y I I V E N F	G T Y N - P S T G A	T K L G E V T S D G	S V Y D I Y R T Q R	V N Q P S I I G	130			
Th	84	L I E Y I I V E N F	G T Y N - P S T G A	T K L G E V T S D G	S V Y D I Y R T Q R	V N Q P S I I G	130			
Sc	85	L I E Y I I V E S Y	G S Y D - P S S A A	S H A G S V T C N G	A T Y D I L S T W R	Y N A P S I D G	131			
An	77	G A E Y I I V E D Y	G D Y N - P C S S A	T S L G T V Y S D G	S T Y Q V C T D T R	I N E P S I T G	123			
AK	77	Q A E Y I I V E D Y	G D Y N - P C S S A	T S L G T V Y S D G	S T Y Q V C T D T R	T N E P S I T G	123			
At	78	Q A E Y I I V E D Y	G D Y N - P C S S A	T S L G T V Y S D G	S T Y Q V C T D T R	I N E P S I T G	124			
Tr1	73	L I E Y I I M E D N	H N Y - - P A Q - G	T V A G T V T S D G	A T Y T T W E N T R	V N E P S I Q G	117			
Aa	83	L I E Y I I V E S Y	G D Y N - P G S G G	T T A G N V S S D G	S V Y D I Y T A T R	T N A P S I D G	129			
Ss	83	L V E Y I I V D N W	G S Y R - P T - - G	E T A G T V H S D G	G T Y D I Y K T T R	Y N A P S V E A	127			
SLB	85	L V E Y I I V D N W	G T Y R - P T - - G	E Y A G T V T S D G	G T Y D I Y K T T R	V N K P S V E G	129			
SLC	83	L V E Y I I V D N W	G S Y R - P T - - G	T Y A G T V S S D G	G T Y D I Y Q T T R	Y N A P S V E G	127			
Tl	84	L I E Y I I V E N F	G T Y D - P S S G A	T D L G T V E C D G	S I Y R L G K T T R	Y N A P S I D G	130			
Tf	83	L V E Y I I V E S W	G T Y R - P T - - G	T Y A G T V T T D G	G T Y D I Y K T T R	Y N A P S I E G	127			
Bc	76	L I E Y I I V D S W	G T Y R - P T - - G	T Y A G T V K S D G	G T Y D I Y T T T R	Y N A P S I D G	120			
Bs	76	L I E Y I I V D S W	G T Y R - P T - - G	T Y A G T V K S D G	G T Y D I Y T T T R	Y N A P S I D G	120			

FIGURE 1 CONT'D

Replacement page

Tr2#		140	150	160	
Bp	136	-IATFKQYWS VRQTKRTS--	-----GTVS VSAHFRKWES	LQMMPM-GK	173
Ca	146	-NTTFQYWS VRRTKRTS--	-----GTIS VSKHFAWES	KGMPL-GK	183
Fs	140	-TQTFQYWS VRKSARSC--	-----GHID ITAHMKWEE	LGMKM-GK	177
Cs	139	-TATFQYWS VRTSKRTS--	-----GTIS VTEHFKOWER	MGMRM-GK	176
Rf	141	-TATFQYWS VRQTSGSANN	QTNMYMGTID VSKHFDWAS	AGLDMSGT	187
Tr2	131	-TATFQYWS VRRNHR-S-S	-----GSVN TANHFNAWAQ	OGLTL-GT	168
Tv	131	-TATFQYWS VRRNHR-S-S	-----GSVN TANHFNAWAQ	OGLTL-GT	168
Th	131	-TATFQYWS VRRNHR-S-S	-----GSVN TANHFNAWAS	HGLTL-GT	168
Sc	132	-TQTFQYWS VRNPKKAPGG	SIS---GTVD VQCHFDWKG	LGMNLGSE	175
An	124	-TSTFQYFS VRESTRTS--	-----GTVT VANHFNFVAH	HCFGN-SD	161
Ak	124	-TSTFQYFS VRESTRTS--	-----GTVT VANHFNFVAH	HCFGN-SD	161
At	125	-TSTFQYFS VRESTRTS--	-----GTVT VANHFNFVAH	HCFHN-SD	163
Tr1	118	-TATFQYIS VRNSPR-T-S	-----GTVT VQNHFN-WAS	LGLHLGQM	155
Aa	130	-TQTFQYWS VRQNKRV-S	-----GTVT TSNHFNAWAK	LGMNL-GT	167
Ss	128	-PAAFQYWS VRQSKVT--S	-----GTIT TGNHFDWAR	AGMNMGNF	166
SlB	130	TR-TFDQYWS VRQSKR-TG-	-----GTIT TGNHFDWAR	AGMPLGNF	168
SlC	128	TK-TFDQYWS VRQSKVTSGS	-----GTIT TGNHFDWAR	AGMNMGNF	168
Tl	131	TQ-TFDQYWS VRQDKR-T-S	-----GTQV TGCCHFDWAR	AGLNVNGD	169
Tf	128	TR-TFDQYWS VRQSKRTS--	-----GTIT AGNHFDWAR	HGMHLGTH	166
Bc	121	DRTTFQYWS VRQSKRPTGS	N-----ATIT FTNHFNWAKS	HGMNLGSN	163
Bs	121	DRTTFQYWS VRQSKRPTGS	N-----ATIT FSNHFNWAKS	HGMNLGSN	163

Tr2#		170	180	190	
Bp	174	MYETAFTVEG YQSSGSANVM	TNQLFIGN	201	SEQ ID NO:4
Ca	184	MHETAFTVEG YQSSGSADVN	SMSINIGK	211	SEQ ID NO:6
Fs	178	MYEAKVLVEA GGGSGFDV-	TYFKMT	202	SEQ ID NO:18
Cs	177	MYEVALTVEG YQSSGYANVY	KNEIRIGANP....		SEQ ID NO:7
Rf	188	LYEVSINIIEG YRSNGSANVK	SVSV	211	SEQ ID NO:8
Tr2	169	MDYQIVAVEG YFSSGSASI-	TVS	190	SEQ ID NO:16
Tv	169	MDYQIVAVEG YFSSGSASI-	TVS	190	SEQ ID NO:17
Th	169	MDYQIVAVEG YFSSGSASI-	TVS	190	SEQ ID NO:14
Sc	176	HNYQIVATEG YQSSGTATI-	TVT	197	SEQ ID NO:9
An	162	FNYQVMAVEA WSGAGSASV-	TISS	184	SEQ ID NO:1
Ak	162	FNYQVMAVEA WSGAGSASV-	TISS	184	SEQ ID NO:54
At	164	FNYQVMAVEA WSGAGSAV-	TISS	185	SEQ ID NO:2
Tr1	156	MNYQVVAVEG WGGSGSASQ-	SVSN	178	SEQ ID NO:15
Aa	168	HNYQILATEG YQSSGSSSI-	TIQ	189	SEQ ID NO:12
Ss	167	RYYMINATEG YQSSGSSSI-	TVSG	189	SEQ ID NO:19
SlB	169	SYYMINATEG YQSSGSSSI-	NVGG.....		SEQ ID NO:10
SlC	169	RYYMINATEG YQSSGSSNI-	TVSG	191	SEQ ID NO:11
Tl	170	HYYQIVATEG YFSSGYARI-	TVADVG	194	SEQ ID NO:20
Tf	167	D-YMINATEG YQSSGSSNV-	LGTS.....		SEQ ID NO:13
Bc	164	WAYQVMATEG YQSSGSSNV-	TVW	185	SEQ ID NO:3
Bs	164	WAYQVMATEG YQSSGSSNV-	TVW	185	SEQ ID NO:5

FIGURE 1 CONT'D

Marked-up Sheet Showing Changes

Ca	23					S	AFNTQAAP	31
Cs	1						G	1
Tr2#		10	20	30	40			
Bp	1	RTITNNEMGN	HSGYDYELWK	DYGNT-SMTL	NNGGAFSAGW	N	--NIGNA	45
Ca	32 10	KTITSNEIGV	NGGYDYELWK	DYGNT-SMTL	KNGGAFSCQW	S	--NIGNA	76 54
Fs	1	NSSVTGNVG	SSPYHYELWY	QGG-NNSMTF	YDNGTYKASW	N	--GTNDF	44
Cs	2	RIIYDNETGT	HGGYDYELWK	DYGNT-IMEL	NDGGTFSCQW	S	--NIGNA	46
Rf	1	SAADQQTGRN	VGGYDYEMWN	QNGGQOASMN	PGAGSFSCSW	S	--NIENF	46
Tr2	1	QTIQPGTGY	NNGYFYSYWN	DGHGGVITYN	GPGGQFSVNW	S	--NSGNF	45
Tv	1	QTIQPGTGF	NNGYFYSYWN	DGHGGVITYN	GPGGQFSVNW	S	--NSGNF	45
Th	1	QTIQPGTGY	SNGYFYSYWN	DGHAGVITYN	GCGGSFTVNW	S	--NSGNF	45
Sc	1	SGTPSSTGT	DGGYFYSWWT	DGAGDATYQN	NGGGSYTLTW	SG	--NNGNL	46
An	1		S AGINYVQYN	GNLGDFTY-D	ESAGTFSMYW	EDGVSSDF		38
AK	1		S AGINYVQYN	GNLADFTY-D	ESAGTFSMYW	EDGVSSDF		38
<u>ATAt</u>	1		S AGINYVQYN	QNLGDFTY-D	ESAGTFSMYW	EDGVSSDF		38
Tr1	1		ASINYDQNYQ	TGG-QVSY-S	PSNTGFSVNW	N	--TQDDF	34
Aa	1	RSTPSSTGE	NNGYFYSFWT	DGGGDVITYN	GNAGSYSEVW	S	--NVGNF	45
Ss	1	ATTIT-NETGY	D-GMYYSFWT	DGGGSVSMTL	NGGGSYSTRW	T	--NCGNF	45
sLB	1	DTVVITNQEGT	NNGYFYSFWT	DSQGTVSMNM	GSGGQYSTSW	R	--NTGNF	47
sLC	1	ATTITTNQGT	D-GMYYSFWT	DGGGSVSMTL	NGGGSYSTQW	T	--NCGNF	46
Tl	1	QTIPTNSEGW	HDGYFYSWWS	DGGAQATYTN	LEGGTYEISW	G	--DGGNL	45
Tf	1	AVTSNETGY	HDGYFYSFWT	DAPGTVMEL	GPGGNYSTSW	R	--NTGNF	45
Bc	1		ASTDYQNWNT	DGGGIVNAVN	GSGGNYSVNW	S	--NTGNF	36
Bs	1		ASTDYQNWNT	DGGGIVNAVN	GSGGNYSVNW	S	--NTGNF	36

FIGURE 1

Marked-up Sheet Showing Changes

Tr2#	50	60	70	80	
Bp	46 LFRK-GKKPD	ST-RTHHQLG	NISINYNASF	N-PSGNSYLC	VYGTQSP 90
Ca	7755LFRK-GKKFN	DT-QTYKQLG	NISVNYNCNY	Q-PYGNYSYLC	VYGTSSP 12199
FSFs	45 LARV-GPKYD	EK-HTYEELG	PIDAYYKWSKQ	GSAGGYNYYIG	LYGTIVDP 91
Cs	47 LFRK-GRKFN	SD-KTYQELG	DIVVEYGCDD	N-PNGNSYLC	LYGTTRNF 91
Rf	47 LARM-GKNYD	SQKKNYKAFG	NIVLTYDVEY	T-PRGNSYMC	VYGTTRNP 92
Tr2	46 VGKG-GWQPG	TKNKV----	---INFS-GS	YNPNNGNSYLS	VYGWSRNP 83
Tv	46 VGKG-GWQPG	TKNKV----	---INFS-GS	YNPNNGNSYLS	VYGWSRNP 83
Th	46 VGKG-GWQPG	TKNKV----	---INFS-GS	YNPNNGNSYLS	VYGWSRNP 83
Sc	47 VGKG-GWNP	AASRS----	---ISYS-GT	YQPNNGNSYLS	VYGTTRSS 84
An	39 VVGL-GWTTG	SSNA-----	---ITYSAEY	SASGSSSYLA	VYGVVNYP 76
Ak	39 VVGL-GWTTG	SSNA-----	---ITYSAEY	SASGSSSYLA	VYGVVNYP 76
At	39 VVGLGWTG	SSNA-----	---ITYSAEY	SASGSSSYLA	VYGVVNYP 77
Tr1	35 VVGW-GWTTG	SSAP-----	---INFGGSF	SVNSGTGLLS	VYGVSTNP 72
Aa	46 VGKG-GWNP	SAKD-----	---ITYSGNF	T-PSGNGYLS	VYGTITDP 8382
Ss	46 VAGK-GWANG	GR-RT-----	---VRYT-GW	FNPSPNGYGC	LYGWTSPN 82
SLB	48 VAGK-GWANG	GR-RT-----	---VQYS-GS	FNPSPNGYLA	LYGWTSPN 84
SLC	47 VAGK-GWSTG	DGN-----	---VRYN-GV	FNPVNGYGC	LYGWTSPN 82
Tl	46 VGKG-GWNP	LNARA-----	---IHFE-GV	YQPNNGSYLA	VYGTTRNP 83
Tf	46 VAGK-GWATG	GR-RT-----	---VTYS-AS	FNPSPNGYLT	LYGWTTRNP 82
Bc	37 VVGK-GWTTG	SPFRT-----	---INYNAGV	WAPNGNGYLT	LYGWTTRSP 75
Bs	37 VVGK-GWTTG	SPFRT-----	---INYNAGV	WAPNGNGYLT	LYGWTTRSP 75

Tr2#	90	100	110	120	130	
Bp	91 LAEYIVDSW	GTYS-PT--G	AYKGSFYADG	GTIDYIYETTR	VNQPISIG	135
Ca	122100LVEYIVDSW	GSWRPP--GG	TSAGTITVDG	GTIDYIYETTR	VNQPISIG	167145
Fs	92 LVEYIVDDW	FNKPGANLLG	QKAGTITVDG	DTYEIWQNTTR	VQQPSIKG	139
Cs	92 LVEYIVDSW	GSWRPP--GA	TPKGTITQWMA	GTYEIYETTR	VNQPISIG	138
Rf	93 LMEYIVBEGW	GDWRPPGNDG	EVAKTIVSANG	NTYDIRKTMTR	VNQPISLDG	140
Tr2	84 LIEYIVENF	GTYN-PSTGA	TKLGEVTSDD	SVYDIYRTOR	VNQPISIG	130
Tv	84 LIEYIVENF	GTYN-PSTGA	TKLGEVTSDD	SVYDIYRTOR	VNQPISIG	130
Th	84 LIEYIVENF	GTYN-PSTGA	TKLGEVTSDD	SVYDIYRTOR	VNQPISIG	130
Sc	85 LIEYIVESY	GSYD-PSSAA	SHAGSVTCNG	ATYDILSTWR	VNAPSIDG	131
An	77 GAEYIVEDY	GDYN-PCSSA	TSIGTVYSDD	STYQVCTDTR	INEPSITG	123
Ak	77 QAEYIVEDY	GDYN-PCSSA	TSIGTVYSDD	STYQVCTDTR	TNEPSITG	123
At	78 QAEYIVEDY	GDYN-PCSSA	TSIGTVYSDD	STYQVCTDTR	INEPSITG	124
Tr1	73 LIEYIVMDEN	HNH--PAQ-G	TVAGTVTSDD	ATYTTWENTR	VNEPSIQG	117
Aa	8483LIEYIVESY	GDYN-PCSGG	TTAGNVSSDD	SVYDIYTATR	TNAPSIDG	140129
Ss	83 LVEYIVDNW	GSYR-PT--G	ETAGTVHSDD	GTIDYIKTTR	VNAPSVEA	127
SLB	85 LVEYIVDNW	GTYS-PT--G	EYAGTVTSDD	GTIDYIKTTR	VNAPSVVEG	129
SLC	83 LVEYIVDNW	GSYR-PT--G	TYAGTVSSDD	GTIDYIQTTR	VNAPSVVEG	127
Tl	84 LVEYIVENF	GTYS-PSSGA	TDLGTVECDG	SIYRLGKTR	VNAPSIDG	130
Tf	83 LVEYIVESW	GTYS-PT--G	TYAGTVTTDD	GTIDYIKTTR	VNAPSIDG	127
Bc	76 LIEYIVDSW	GTYS-PT--G	TYAGTVKSDG	GTIDYITTR	VNAPSIDG	120
Bs	76 LIEYIVDSW	GTYS-PT--G	TYAGTVKSDG	GTIDYITTR	VNAPSIDG	120

FIGURE 1 CONT'D

Marked-up Sheet Showing Changes

Tr2#		140	150	160		
Bp	136	-IATFKQYWS VRQTKRTS--	-----GTVS	VSAHFRRKWS	LGMMP-GK 174173	
Ca	146 146	-NTTFKQYWS VRRTKRTS--	-----GTIS	VSRHFAAWES	KGMPL-GK 206183	
Fs	140	-TQTFQYFWS VRKSARSC--	-----GHID	ITAHMKKWE	LGMKM-GK 170177	
Cs	139	-TATFQYQWS VRTSKRSTS--	-----GTIS	VTEHFKQWER	MGMRM-GK 177176	
Rf	141	-TATFQYQWS VRQTSGSANN	QTNMYMGTID	VSKHFDWWSA	AGLDMST 187	
Tr2	131	-TATFQYQWS VRNRHR-S-S	-----GSVN	TANHFNWAAQ	QGLTL-GT 168	
Tv	131	-TATFQYQWS VRNRHR-S-S	-----GSVN	TANHFNWAAQ	QGLTL-GT 168	
Th	131	-TATFQYQWS VRNRHR-S-S	-----GSVN	TANHFNWAAQ	QGLTL-GT 168	
Sc	132	-TQTFQYQWS VRNPKKAPGG	SIS---	GTVD	VQCHFDWWSA	LGMNLGSE 175
An	124	-TSTFQYFWS VRESTRTS--	-----GTVT	VANHFNWAAQ	HGFNG-SD 162161	
Ak	124	-TSTFQYFWS VRESTRTS--	-----GTVT	VANHFNWAAQ	HGFNG-SD 162161	
At	125	-TSTFQYFWS VRESTRTS--	-----GTVT	VANHFNWAAQ	HGFNG-SD 163	
Tr1	118	-TATFQYQWS VRNSPR-T-S	-----GTVT	VQNHFNWAAQ	LGLHLGQM 155	
Aa	131 130	-TQTSQYQWS VRQNK-R-VG-	-----GTVT	TSNHFNWAAQ	LGMNL-GT 168167	
Ss	128	-PAATFQYQWS VRQSKVT--S	-----GTIT	TGNHFDWAAW	AGMNMGNF 168166	
SlB	130	TR-TFDQYQWS VRQSKR-TG-	-----GTIT	TGNHFDWAAW	AGMPLGNF 168	
SlC	128	TK-TFDQYQWS VRQSKVTSGS	-----GTIT	TGNHFDWAAW	AGMNMGNF 168	
Tl	131	TQ-TFDQYQWS VRQDKR-T-S	-----GTQV	TGCHFDWAAW	AGLNVNGD 169	
Tf	128	TR-TFDQYQWS VRQSKRTS--	-----GTIT	AGNHFDWAAW	HGMHLGTH 166	
Bc	121	DRITTFQYQWS VRQSKRPTGS	N-----ATIT	FSNHFNWAAQ	HGMNLGSE 163	
Bs	121	DRITTFQYQWS VRQSKRPTGS	N-----ATIT	FSNHFNWAAQ	HGMNLGSE 163	

Tr2#		170	180	190	
Bp	175	174MYETAFTVEG	YQSSGSANVM	TNQLFIGN	201 SEQ ID NO:4
Ca	207 184	MHETAFNIEG	YQSSGKADVN	SMSINIGK	233211SEQ ID NO:6
Fs	179 178	MYEAKVLVEA	GGSGSFDV-	TYFKMT	203202SEQ ID NO:18
Cs	176 177	MYEVALTVEG	YQSSGYANVY	KNEIRIGANP....	SEQ ID NO:7
Rf	188	LYEVS LNIEG	YRSNGSANVK	SVSV	211 SEQ ID NO:8
Tr2	169	MDYQIVAVEG	YFSSGSASI-	TVS	190 SEQ ID NO:16
Tv	169	MDYQIVAVEG	YFSSGSASI-	TVS	190 SEQ ID NO:17
Th	169	MDYQIVAVEG	YFSSGSASI-	TVS	190 SEQ ID NO:14
Sc	176	HNYQIVATEG	YQSSGTATI-	TVT	197 SEQ ID NO:9
An	163 162	FNQVMAVEA	WSGAGSASV-	TISS	184 SEQ ID NO:1
Ak	163 162	FNQVMAVEA	WSGAGSASV-	TISS	184 SEQ ID NO:54
At	164	FNQVMAVEA	WSGAGSAAV-	TISS	185 SEQ ID NO:2
Tr1	157 156	MNYQVMAVEG	WGGSGASQ-	SVSN	178 SEQ ID NO:15
Aa	169 168	HNYQILATEG	YQSSGSSSI-	TIQ	190189SEQ ID NO:19
Ss	167	RYYMINATEG	YQSSGSTI-	TVSG	189 SEQ ID NO:12
SlB	169	SYYMINATEG	YQSSGSTI-	NVGG.....	SEQ ID NO:10
SlC	169	RYYMINATEG	YQSSGSTI-	TVSG	191 SEQ ID NO:11
Tl	170	HYYQIVATEG	YFSSGYARI-	TVADVG	194 SEQ ID NO:20
Tf	167	D-YMINATEG	YQSSGSSNV	LGTS.....	SEQ ID NO:13
Bc	164	WAYQVMATEG	YQSSGSSNV-	TVW	185 SEQ ID NO:3
Bs	164	WAYQVMATEG	YQSSGSSNV-	TVW	185 SEQ ID NO:5

FIGURE 1 CONT'D